JORDAN CHUNG

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SKILLS

- Proficiency in Java, Python, C++, C, HTML, JavaScript, and Flask.
- Strong leadership, communication, collaboration, and time management skills.
- Resourceful, adaptable, and a very quick learner
- Detailed-oriented troubleshooter with excellent research and critical thinking ability.

EDUCATION

Bachelor of Applied Science, Smith School of Engineering, Queen's University, Kingston, ON **2023 – 2027**

- Queen's Solar Design Team Member; Queen's Men's Varsity Rowing Team; Science '56 Bursary Recipient; Ontario Scholar Recipient.
- Computer Engineering, Certificate in Business.

ENGINEERING DESIGN EXPERIENCE

Queen's Hyperloop Design Team Sensor System, APSC 103, Kingston, ON **Dec 2023 – May 2024**

- Developed a computer vision sensor system able to detect small objects surrounding the hyperloop pod in a blurry environment
- Utilize machine learning to identify detected objects, and classify potential problems based on the object using custom test cases.
- Designed a software application to display sensor results in a user-friendly interface using flask.
- Collaborated with the technical subsystems team on QHDT to ensure straightforward integration of the sensor.

Heat Exchanger Experimental Design Project, APSC 102, Kingston ON **Sept 2023 – Dec 2023**

- Designed and conducted chemical experiments to calculate the best acid available to neutralize sodium hydroxide in a body of water while practicing safe lab procedures.
- Developed a predictive model to calculate the required surface area required for the heat exchanger, depending on the volume of sodium hydroxide in the water.
- Performed error propagation analysis to ensure precise volume and area measurements, enhancing the accuracy of the experimental results.

Automated Fluid Dispenser Prototype, APSC 101, Kingston ON **Sept 2023 – Dec 2023**

- Collaborated with a team of 6 people to design a 3D model of an automated fluid dispenser using engineering design practice.
- Optimized design using Prusa Slicer reducing acrylic and PLA filament usage when 3D printing while decreasing printing time by 30%.
- Implemented various electrical components onto the prototype and created a computer program within the Arduino IDE to control the electrical parts of the automated fluid dispenser.
- Applied engineering principles to calculate the optimal gear ratio based on client specifications and load requirements, while considering speed and torque limit.

EXTRACURRICULAR EXPERIENCE

Queen's Varsity Rowing Team, Helping Kids, Kingston, ON **Sept 2023 – Present**

- Effectively time managed six 5:30 am - 7:30 am practices and dedicated upwards of 20 hours a week to high-performance training while maintaining a full course load

Engineering Club President, Bur Oak SS, Markham ON **Sept 2022 – Aug 2023**

- Organized the Bur Oak Secondary School Engineering Fair with other executive members, accounting for input and suggestions from club members and supervisors.
- Scheduled workshops and effectively led presentations on multiple engineering disciplines to ensure it would run successfully as planned.
- Contacted engineering workers and current engineering students to serve as guest speakers for club members.